Cisco and OSIsoft Real-Time Data Management Infrastructure for Manufacturing & Industry

Partner Overview

OSIsoft™ delivers the PI System™, the industry standard in enterprise infrastructure for management of real-time data and events. With installations in 110 countries spanning the globe, the OSIsoft PI System is used in manufacturing, energy utilities, life sciences, data centers, facilities and the process industries. This global installed base relies upon the PI System to safeguard data and deliver enterprise-wide visibility into operational, manufacturing and business data. The PI System enables users to manage assets, mitigate risks, comply with regulations, improve processes, drive innovation, make business decisions in real-time and identify competitive business and market opportunities. Founded in 1980, OSIsoft, LLC is headquartered in San Leandro, California, U.S.A. with operations worldwide and is privately held.

Partner Solution Description

The PI System takes disparate real-time process data – in a variety of formats from both automation and personal data storage systems – and captures it in one flexible, configurable hub. Information becomes instantly and easily accessible to all users so operators, engineers, and management all have direct access to the same real-time data infrastructure. By bridging the information gaps between process control, operations and business management systems the PI System helps companies collaborate and instantly react to market place shifts and operational changes.

The convergence of Cisco® and OSIsoft technologies expands the breadth of available informational sources and gives companies increased ability to effectively access and collect operational data through a secure, robust and scalable infrastructure.

As more systems and processes are networked, scalable process management systems and effective management tools are vital to success. To fully realize the potential of your data, information must be available from all facets of the enterprise from the plant floor to operations to the data center.

EXEcutivE Summary

Cisco Partner Solution Profile

Partner Affiliation:
- Cisco Developer Network
- Cisco Smart Grid Ecosystem Partner

Associated Cisco Solution:
- Cisco Converged Plantwide Ethernet (CPwE) solution
- Cisco Integrated Service Routers, with Cisco Services Ready Engine (SRE) modules

Customer Benefits:
- Minimized operational disruptions through proactive sharing and management of information
- Shortened mean time to repair (MTTR)
- Elimination of disparate information systems, duplication of effort, and miscommunication
- Faster response within a more collaborative operations environment
- Reduced costs, waste, and inventory

Targeted Industries:
- Oil and Gas
- Chemicals and Petrochemicals
- Pharmaceuticals, Food, and Life Sciences
- Power and Utilities
- Materials, Mines, Metals, and Metallurgy
- Pulp and Paper
- Critical Facilities, Data Centers, and IT

Geographical Regions Served:
- Global
Cisco and OSIsoft’s enterprise-wide information infrastructure helps companies address challenges in an array of operational areas including:

- Quality
- Cost Variability
- Capital Utilization
- Environmental Health & Safety
- Empowering Personnel
- Trading & Markets
- Regulations & Compliance
- Technology & Innovation

Core Components of the Partner Solution

The OSIsoft PI System draws upon a vast library of interfaces and connectors to collect data from a wide range of plant, manufacturing and operational systems and delivers it, via an IP based network, to a real-time data management infrastructure that organizes, stores and exposes data for immediate availability. Users can easily find and select data for further analysis and apply specific criteria for notifications and visualization in a range of methods. Trends, reports, tables and other graphics can be configured specifically for the target audience and easily accessed from computers, mobile devices and digital signage. This infrastructure also provides access to data it houses via standard communication methods including web-services, ODBC/JDBC, OPC, etc.

Components of the PI System can fully leverage Cisco’s computing and communications infrastructure. For example, a global enterprise can deploy the OSIsoft PI System (Interfaces and/or the PI Server 2010) on the embedded Services Ready Engine (SRE) blade server within the Cisco Integrated Services Router - G2 (aka UCS-Express). In this scenario manufacturing and operational data can be collected and analyzed locally for immediate action and simultaneously transmitted to a central location for site-to-site comparisons and enterprise-wide aggregated roll ups.

Cisco’s hardware and the PI System converge data with additional mediums like voice and video to provide increased informational resources for companies. For example, PI System data can also be used in conjunction with Cisco’s CEBT service delivery platform to support bidirectional context driven communications. This allows you to create “remote expert” applications for fixing equipment by combing data with voice and video, enhance security and safety, add additional dimension to site inspection by including information such as if personnel were present during an event, and more.

Related Cisco Products

The Cisco Converged Plantwide Ethernet (CPwE) foundation for this solution includes:

- Cisco UCS®-Express
- Cisco Integrated Services Router – 2nd Generation (ISR-G2)
- Cisco Services Ready Engine (SRE) modules
- Cisco UCS Server platform
- Cisco CEBT Collaboration Platform

Related Partner Information

- Converged Plantwide Ethernet (CPwE):
- Cisco Manufacturing:
- Cisco Connected Energy Grid Ecosystem:
  http://www.cisco.com/web/strategy/energy/smart_grid/solutions.html#-ecosystem
- OSIsoft Solutions:

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